

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A hard surface cleaning composition comprising

(a) an effective amount of at least one low-volatile non-VOC evaporative organic solvent that has limited solubility in water of less than 20% and reduces surface tension of the composition to less than ~~40~~ 35 dynes/cm;

(b) an effective amount of at least one amphoteric surfactant and, optionally, at least one additional surfactant which is anionic, nonionic, cationic, or a mixture thereof,

(c) an effective amount of at least one co-solvent which is different from (a) and when said co-solvent is a low volatile non-VOC solvent, said co-solvent has at least a different water-solubility or different surface tension reduction capacity from said solvent of (a), and includes at least one aliphatic alcohol; and

(d) an aqueous carrier;
wherein said composition has less than about 4% by wt. volatile organic compound (VOC) content.

2. (Currently Amended) A hard surface cleaning composition comprising

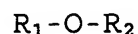
(a) greater than 0 to about 4% by wt. of at least one low-volatile and/or high-volatile evaporative organic solvent that has limited solubility in water of less than 20% and reduces surface tension of the composition to less than ~~40~~ 35 dynes/cm;

(b) greater than 0 to about 5% by wt. of at least one amphoteric surfactant and, optionally, at least one additional surfactant which is anionic, nonionic, cationic or a mixture thereof;

(c) from greater than 0 to about 30% by wt. of at least one co-solvent which is different from (a) and when said co-solvent is a low volatile non-VOC solvent, said co-solvent has at least a different water-solubility or different surface tension reduction capacity from said solvent of (a), and includes at least one aliphatic alcohol; and

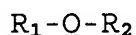
(d) a balance of an aqueous carrier;
wherein said composition has less than about 4% by wt. volatile organic compound (VOC) content.

3. (Original) The hard surface cleaning composition of claim 1 wherein said at least one low-volatile non-VOC evaporative organic solvent is a glycol ether having a formula -



wherein R_1 is a C_1 - C_8 linear, branched or cyclic alkyl or alkenyl optionally substituted with -OH, -OCH₃, or -OCH₂CH₃ and R_2 is a C_1 - C_6 linear, branched or cyclic alkyl or alkenyl substituted with -OH.

4. (Original) The hard surface cleaning composition of claim 2 wherein said at least one low-volatile non-VOC evaporative organic solvent is a glycol ether having a formula -



wherein R_1 is a C_1 - C_8 linear, branched or cyclic alkyl or alkenyl optionally substituted with -OH, -OCH₃, or -OCH₂CH₃ and R_2 is a C_1 - C_6 linear, branched or cyclic alkyl or alkenyl substituted with -OH.

5. (Canceled).

6. (Canceled).

7. (Canceled).

8. (Canceled).

9. (Previously Presented) The hard surface cleaning composition of claim 1 wherein said at least one amphoteric surfactant is disodium cocoamphodipropionate.

10. (Previously Presented) The hard surface cleaning composition of claim 2 wherein said at least one amphoteric surfactant is disodium cocoamphodipropionate.

11. (Original) The hard surface cleaning composition of claim 1 wherein said at least one low-volatile evaporative organic solvent is ethylene glycol n-hexyl ether.

12. (Original) The hard surface cleaning composition of claim 2 wherein said at least one low-volatile evaporative organic solvent is ethylene glycol n-hexyl ether.

13. (Original) The hard surface cleaning composition according to claim 9 wherein said at least one low-volatile non-VOC evaporative organic solvent is ethylene glycol n-hexyl ether.

14. (Original) The hard surface cleaning composition according to claim 10 wherein said at least one low-volatile non-VOC evaporative organic solvent is ethylene glycol n-hexyl ether.

15. (Previously Presented) The hard surface cleaning composition according to claim 1 wherein said at least one additional surfactant of (b) comprises an anionic surfactant.

16. (Previously Presented) The hard surface cleaning composition according to claim 2 wherein said at least one additional surfactant of (b) comprises an anionic surfactant.

17. (Previously Presented) The hard surface cleaning composition according to claim 3 wherein said at least one additional surfactant of (b) comprises an anionic surfactant.

18. (Previously Presented) The hard surface cleaning composition according to claim 4 wherein said at least one additional surfactant of (b) comprises an anionic surfactant.

19. (Previously Presented) The hard surface cleaning composition according to claim 15 wherein said at least one amphoteric surfactant is disodium cocoamphodipropionate and said anionic surfactant is a sulfate and/or sulfonate compound.

20. (Previously Presented) The hard surface cleaning composition according to claim 16 wherein said at least one amphoteric surfactant is disodium cocoamphodipropionate and said anionic surfactant is a sulfate and/or sulfonate compound.

21. (Original) The hard surface composition according to claim 19 wherein said at least one volatile evaporative organic solvent is ethylene glycol n-hexyl ether.

22. (Original) The hard surface composition according to claim 20 wherein said at least one volatile evaporative organic solvent is ethylene glycol n-hexyl ether.

23. (Original) The hard surface cleaning composition according to claim 1 wherein said composition has a pH of 2 or above.

24. (Original) The hard surface cleaning composition according to claim 2 wherein said composition has a pH of 2 or above.

25. (Original) The hard surface cleaning composition according to claim 1 wherein said composition has a pH of 2 to 13.

26. (Original) The hard surface cleaning composition according to claim 2 wherein said composition has a pH of 2 to 13.

27. (Previously Presented) The hard surface cleaning composition according to claim 1 wherein said at least one co-solvent of (c) includes propylene glycol.

28. (Previously Presented) The hard surface cleaning composition according to claim 2 wherein said at least one co-solvent of (c) includes propylene glycol.

29. (Currently Amended) The hard surface cleaning composition according to claim 3 wherein said at least one co-solvent of (c) includes ~~is~~ propylene glycol.

30. (Previously Presented) The hard surface cleaning composition according to claim 4 wherein said at least one co-solvent of (c) includes propylene glycol.

31. (Canceled).

32. (Canceled).

33. (Canceled).

34. (Canceled).

35. (Previously Presented) The hard surface cleaning composition according to claim 9 wherein said at least one co-solvent of (c) includes propylene glycol.

36. (Previously Presented) The hard surface cleaning composition according to claim 10 wherein said at least one co-solvent of (c) includes propylene glycol.

37. (Previously Presented) The hard surface cleaning composition according to claim 1 wherein said at least one co-solvent of (c) includes monoethanolamine.

38. (Previously Presented) The hard surface cleaning composition according to claim 2 wherein said at least one co-solvent of (c) includes monoethanolamine.

39. (Previously Presented) The hard surface cleaning composition according to claim 3 wherein said at least one co-solvent of (c) includes monoethanolamine.

40. (Previously Presented) The hard surface cleaning composition according to claim 4 wherein said at least one co-solvent of (c) includes monoethanolamine.

41. (Canceled).

42. (Canceled).

43. (Canceled).

44. (Canceled).

45. (Previously Presented) The hard surface cleaning composition according to claim 9 wherein said at least one co-solvent of (c) includes monoethanolamine.

46. (Previously Presented) The hard surface cleaning composition according to claim 10 wherein said at least one co-solvent of (c) includes monoethanolamine.

47. (Original) The hard surface cleaning composition according to claim 25 wherein said at least one co-solvent of (c) further includes monoethanolamine.

48. (Original) The hard surface cleaning composition according to claim 26 wherein said at least one co-solvent of (c) further includes monoethanolamine.

49. (Previously Presented) The hard surface cleaning composition according to claim 1 wherein said at least one aliphatic alcohol is isopropanol.

50. (Previously Presented) The hard surface cleaning composition according to claim 2 wherein said at least one aliphatic alcohol is isopropanol.

51. (Previously Presented) The hard surface cleaning composition according to claim 3 wherein said at least one aliphatic alcohol is isopropanol.

52. (Previously Presented) The hard surface cleaning composition according to claim 4 wherein said at least one aliphatic alcohol is isopropanol.

53. (Canceled).

54. (Canceled).

55. (Previously Presented) The hard surface cleaning composition according to claim 15 wherein said at least one aliphatic alcohol is isopropanol.

56. (Previously Presented) The hard surface cleaning composition according to claim 16 wherein said at least one aliphatic alcohol is isopropanol.

57. (Previously Presented) The hard surface cleaning composition according to claim 19 wherein said at least one aliphatic alcohol is isopropanol.

58. (Previously Presented) The hard surface cleaning composition according to claim 20 wherein said at least one aliphatic alcohol is isopropanol.

59. (Original) The hard surface cleaning composition according to claim 1 further comprising a polymer or a copolymer.

60. (Original) The hard surface cleaning composition according to claim 59 wherein said polymer is an acrylic polymer.

61. (Original) The hard surface cleaning composition according to claim 59 wherein said copolymer is an acrylic copolymer.

62. (Currently Amended) A hard surface cleaning composition comprising

(a) greater than 0 to about 4% by wt. of at least one low-volatile and/or high-volatile evaporative organic solvent that has limited solubility in water of less than 20% and reduces surface tension of the composition to less than ~~40~~ 35 dynes/cm;

(b) greater than 0 to about 5% by wt. of at least one amphoteric surfactant and, optionally, at least one surfactant which is anionic, nonionic, cationic or a mixture thereof;

(c) from greater than 0 to about 30% by wt. of at least one co-solvent which is different from (a) and when said co-solvent is a low volatile non-VOC solvent, said co-solvent has at least a different water-solubility or different surface tension reduction capacity from said solvent of (a), and includes at least one aliphatic alcohol;

(d) a polymer or a copolymer; and

(e) a balance of an aqueous carrier;

wherein said composition has less than about 4% by wt. volatile organic compound (VOC) content.

63. (Original) A hard surface cleaning composition according to claim 62 wherein said polymer is an acrylic polymer.

64. (Original) A hard surface cleaning composition according to claim 62 wherein said copolymer is an acrylic copolymer.

65. (Previously Presented) A hard surface cleaning composition according to claim 62 wherein said solvent of (a) is a glycol ether, said at least one additional surfactant of (b) is present and includes an anionic surfactant, said at least one co-solvent of (c) includes a glycol and an alkanolamine.

66. (Previously Presented) A hard surface cleaning composition according to claim 1, wherein said VOC content is 3% by wt. or less.

67. (Previously Presented) A hard surface cleaning composition according to claim 2, wherein said VOC content is 3% by wt. or less.

68. (Previously Presented) A hard surface cleaning composition according to claim 62, wherein said VOC content is 3% by wt. or less.

69. (Previously Presented) A hard surface cleaning composition according to claim 1, wherein said VOC content is about 1% by wt. or less.

70. (Previously Presented) A hard surface cleaning composition according to claim 2, wherein said VOC content is about 1% by wt. or less.

71. (Previously Presented) A hard surface cleaning composition according to claim 62, wherein said VOC content is about 1% by wt. or less.